Physical Metallurgy and Technology of Heat Treatment 841	
TO A THE PARTY OF	
Physical Metalling and Island Physical Metalling Kirpichnikov, K.S., Candidate of Technical Sciences, Docent. Rapid Annealing of Semifinished Articles Cold-formed from D16 and AV (AK5) Aluminum-Alloy of Semifinished Articles Cold-formed from D16 and AV (AK5)	17
Sheet The author describes the results of applying new regimes of rapid annealing for heat-treated aluminum alloys. In addition, he outlines the principles of designing equipment for rapid annealing.	
Vishnyakov, D.Ya.; Figel'man, M.A., Engineer; Trifonova, O.L., Engineer.  Some Properties of EI659 Medium-Alloy Steel  The author studies the effect of the degree of plastic deformation and the rate of cooling on the properties of this steel, tested at various temperatures. This type of steel contains small to moderate smounts of chromium, nickel, tungsten, and vanadium. There are 4	34
Vishnyakov, D.Ya.; Vinitskiy, A.G., Candidate of Technical Sciences. A Study of the Wear Resistance of Carbon Steels	43
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Author's conclusions: 1. Carbon steels with a laminated pearlitic structure are more wear-resistant than steels with a gramular pearlitic structure. 2. An increase in the amount of laminar pearlite results in a drop in the rate of wear, especially in hypocutectoid steels. There are 4 references, all Soviet.

Vishnyakov, D.Ya.; Vinitskiy, A.G. Effect of Structure on the Wear Resistance of Iron-Chromium-Carbon Alloys
Author's conclusions (in part): 1. An increase in the quantity of special carbides in annealed and hardened chrome steels increases their wear resistance. 2. A given quantity of cubic crystals of chromium carbide imparts greater wear resistance than the same quantity of trigonal carbides, other conditions being equal.

3. The relationship between wear resistance, hardness, and certain other mechanical properties of annealed chrome steels can be observed only within the limits of identical structures. There are 3 references, all Soviet.

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Physical Metallurgy and Technology of Heat Treatment 841	
Livanov, V.A., Candidate of Technical Sciences; Vozdvizhenskiy, V.M., Candidate of Technical Sciences. Recrystallization of Alumimum-Manganese	65
Alloys  The authors study the recrystallization process of aluminum-manganese  The authors study the amount of manganese in solid solution, the alloys as affected by the amount of manganese in solid solution, the quantity and distribution of dispersed phases, and nomuniformity of chemical composition and structure. There are 18 references, of which 8 are Soviet, 8 English, and 2 German.	
Livanov, V.A.; Vozdvizhenskiy, V.M. Effect of Addition Elements on the Solubility of Manganese in Aluminum  The authors study the effect of small amounts of iron, silicon, and titanium on the solubility of manganese in aluminum. There are 15 references, of which 3 are Soviet, 8 English, and 4 German.	814
Vishnyakov, D.Ya.; Sovalova, A.A., Candidate of Technical Sciences, Docent; Smirnova, K.A. Mechanical Properties of Steels at Low Temperatures	100
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	The state of the s
Physical Metallurgy and Technology of Heat Treatment 841  Results are given of an investigation of the effect of the composition and heat treatment of certain alloy structural steels on the cold brittleness of the steels at sub-zero temperatures. There are 3 references, all Soviet.  Sovalova, A.A.; Kornilova, Z.I., Engineer. Scale Resistance of Certain Nickel-Base Alloys The authors compare the scale resistance of three nickel-base alloys at various temperatures with that of an iron-base aircraft-construc-	107
Neustruyev, A.A., Candidate of Technical Sciences. Heat Exchange in Continuous Convection Furnaces  Neustruyev compares uniflow and counterflow furnaces of the above type  Neustruyev compares uniflow and counterflow furnaces of the above type and concludes that preference should be given to the counter-flow	113
Neustruyev, A.A., Candidate of Technical Sciences. Special Features of Heating Elongated Items of Aluminum Alloys in Convection Furnaces	129
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The author discusses the special problems connected with the heat treatment, especially hardening, of elongated aluminum-alloy semi-finished products (shapes, pipes, sheet, etc.), particularly such problems as maintaining constant temperature and the achievement of rapid and uniform heating. There are 5 references, of which 4 are Soviet and 1 is German.

Livanov, V.A.; Yelagin, V.I., Candidate of Technical Sciences. Investigation of AMgo Heat-resistant Alloy with Additions of Iron and Nickel

The author's investigation shows that small additions of iron

(0.08-0.92%) and nickel (0.17-0.72%) do not improve the mechanical properties of AMgo alloy (Al + 6% Mg) at elevated temperatures.

There are 7 references, of which 5 are Soviet, l is English, and 1 German.

Livanov, V.A.; Yelagin, V.I. The Extrusion Effect at Elevated Temperatures

An investigation of the "extrusion effect" (increased strength as a
result of the extrusion process) in aluminum-magnesium alloys with
additions of chromium and manganese (together and separately) shows

Card 7/8

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Physical Metallurgy and Technology of Heat Treatment 841

that these alloys retain their increased strength even after cold drawing. It is further shown that the extrusion effect is preserved at elevated temperatures (300°C) and is observed both in the shortaine strength test and in the long-time hardness test. There are 10 references, of which 8 are Soviet and 2 German.

Petrov, D.A., Professor, Doctor of Technical Sciences; Bukhanova, A.A.,
Candidate of Technical Sciences. Change in Shape and Recrystallization of
Crystalline Substances During Solution and Growth in the Solid Phase
Crystalline Substances During Solution and Growth in the Solid Phase
The authors investigate the changes in crystalline structure which
occur during the annealing of various alloys.

172

Kolachev, B.A., Candidate of Technical Sciences. The Effect of Chromium, Manganese, and Iron on the Natural Aging of Aluminum-Copper Alloys Results are given of an investigation of the effect of chromium, manganese, and iron on the aging of aluminum alloys containing 4 percent of copper. There are 9 references, of which 4 are Soviet, 3 German, and 2 English.

AVAILABLE: Library of Congress

Card 8/8 11-28-58

VISHNYAKOV, D.Ya., doktor tekhn.nauk, prof.; FIGEL MAH, H.A., inzh.; TRIFOROVA, O.L., inzh. Some properties of EI659 low-alloy steel. Trudy MATI no.31:34-42 (MIRA 11:7) (Steel alloys -- Testing) 

VOLOSHCHUK, V.U.; TRIFONOVA. R.G.; ZVEREVA, Ye.V.; TARNAVSKIY, A.L.;
ASHURKINA, Te.M.; IVANOV, V.P.

New developments in research. Stal' 23 no.91858 S '63.
(MIRA 16:10)

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L 43079-66 EMT(m)/EMP(w)/T/EWP(t)/ETI/EMP(k) IJP(c) JD/HM  ACC NR: AR6014375 (A,N) SOURCE CODE: UR/0137/65/000/011/D005/D006  AUTHORS: Pavlov, A. M.; Zuyev, B. M.; Chukin, V. V.; Trifonova, R. G.; Kashkina,	
TITLE: Formation of elastic-plastic properties of steel cables  SOURCE: Ref. zh. Metallurgiya, Abs. 11D39  SOURCE: Ref. zh. Metallurgiya, Vyp. 2. Kiyev, Tekhnika, 1965, 355-359	
ABSTRACT: Increasing the degree of deformation of surface layers during straightening leads to a decrease of the elastic and flow limits, however, the overall ening leads to a decrease of the elastic and flow limits, however, the overall ening leads to a decrease of the elastic and flow limits, however, the overall ening leads to a decrease of the increase in the degree of defect achieved by this method is negligible. The increase in the degree of effect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by this method is negligible. The increase in the degree of defect achieved by the degree of deg	
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ENT(1)/ENP(q)/ENT(m)/BDS AFFTC/ASD UD S/0133/63/000/009/0858/0858 L 15509-63 ACCESSION NR: AP3006528 AUTHOR: Trifonova, R. G. TITLE: Use of ultrasound in pickling metal SOURCE: Stal', no. 9, 1963, 858 TOPIC TAGS: steel pickling, pickling acceleration, ultrasonic chamical pickling, ultrasonic electroclemical pickling O.40% Nil, and 18Khnva(V).14 Ni, 0.80-1.202 W) steel rods. The ultrasound increased the rate of chemical pickling 4-7.5 rimes. ASSOCIATION: none ENCL: 00 DATE ACQ: 30Sep63 SUBMITTED: 00 OTHER: 000 NO REF SOV: 000 SUB CODE: MA, ML Card 1/1 

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(RIFONOVA, S.F., USSR/Pharmacology, Toxicology, Ganglioblocking Drugs

U-4

Abs Jour : Ref Zhur - Biol., No 4, 1958, No 17593

: Trifonova S.F. Author

Inst : Not Given

: An Experiment in the Use of Pachycarpine in Uterine Sub-Title

involution after Birth

Orig Pub: Akusherstvo i ginekologiya, 1957, No 2, 89

Abstract : Pachycarpine was used in a dose of 0.1 g 3 times daily in 120

births. The treatment began in the majority of cases on the 2-4th day after delivery. After 2-5 days of treatment the uterus contracted well, the height in a standing posture decreased by 2-3 cm. There was no unfavorable effect on lactation.

: 1/1 Card

Influence of brucellosis on menstrual function. Vop. okh. mat.

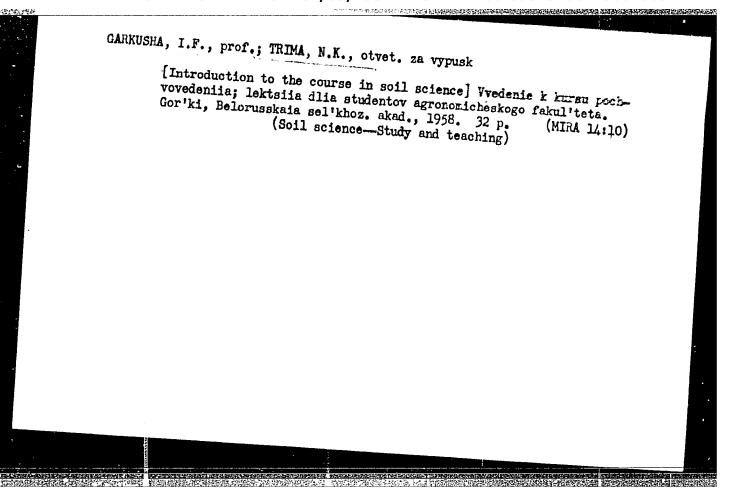
Influence of brucellosis on menstrual function. Vop. okh. mat.

(MIRA 13:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. A.B.

Gillerson) Omskogo gosudarstvennogo meditsinskogo instituta imeni
M.I. Kalinima.

(BRUCELLOSIS) (MENSTRUATION)



ALEXANDRU, M., ing.; ELUM, R.; DICEA, O., geolog; TRIMBITAS, I., ing.

Considerations on the seismic prospecting works in platform zones. Petrol si gaze 14 no.6:273-290 Je\*63

"Problem of leber hysiers in the sett a purifying and actual cil industry."

report submitted at the 13th All-Union Congress of Hygienists, Apidemiologists and Infectionists, 1959.

TRIMMER, J.B.; MAKRA, Zsigmond [translator]

Hotel management in Ergodia. Fiz szemle 13 no.4:110-112 Ap 163.

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Survey of Scientific and Technical Dissertations Defended at USSF Higher Educational Institutions (12) SO: Sum. No. 556, 24 Jun 55

TRIMEROU S

USSR / Farm Animals. Honoyboom.

Q-5

Abs Jour: Ref Zhur-Biols, No 23, 1958, 105778.

Author : Trimonov, S. Inst : Not given.

Title : Our Experience in Open Air Wintering of Honey-

boos in an Apiary.

Orig Pub: S. Kh. Sibiri, 1958, No 4, 70-73.

Abstract: From 27 colonies which wintered in the open in 1954-1956 a gross honey - crop of 40.3 kg. per colony was obtained, and from 22 colonies which wintered in a protected place - 31.4 kg. The cold was reaching 46-60°C but no death loss of bees was observed. The hives were two-colony, horizontal, with walls of 106 mm. total thickness out of which 40-45 mm. was filled with in-

sulating material.

Card 1/1

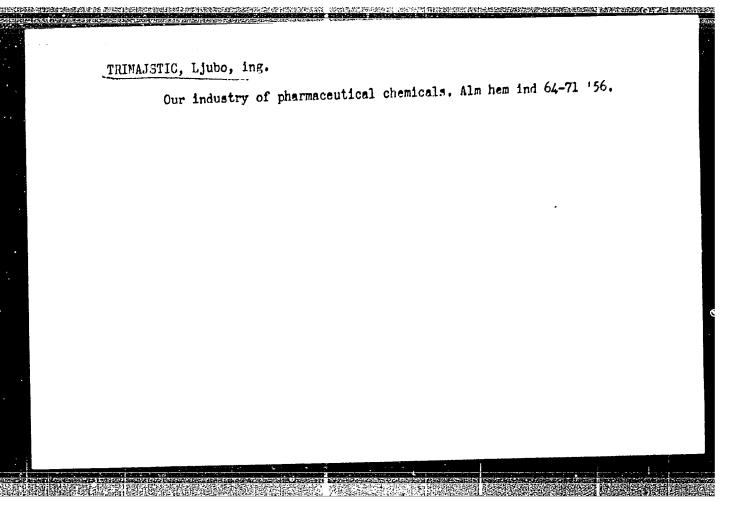
### TRIMPOLETS, D.A., inzh.

Artificial wave generator for controlling the development in water of blood-sucking mosquitoes. Gig. i san. 26 no.5:91 My '61.

1. Iz Khar'kovskogo otdeleniya gosudarstvennogo proyektnogo instituta Vodokanalproyekt.

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TRINAJSTIC, Ljubo, ing.; MRAKOVCIC, Thoraj, dipl.ec.

State and prospective needs of professional cadres of the chemical industry of the People's Republic of Croatia. Kem ind 9 no.12:307-311 D '60.

TRINAJSTIC, Ljubo, inz.; Kosi, Otmar, inz.

Problems of schools and skilled vocational cadres for chemical industries and scientific research.

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KOLAR, Z.; DEZELIC, Gj.; RANDIC, M.; TRINAJSTIC, N.; SEKE, V.

Book reviews. Croat chem acta 35 no.4:315-319 '63.

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### Urology

### RUMANIA

TARCOVEANU, Gh., Dr., Col, TRINCA, D., Dr., Lt-Col, and PLOSCARU, V., Dr., Lt-Col [affiliation not given]

"Considerations on Urolithiasis Patients Hospitalized in the Surgery Section of the Pitesti Military Hospital in Recent Years (1961-1965)." Bucharest, Revista Sanitara Militara, Vol 62, No 4, Jul-Aug 66, pp 691-697.

Abstract: A discussion and analysis of 184 cases of urolithiasis treated at the Pitesti Military Rospital during a five-year period, representing 2.9 percent of the total number of surgical cases during the period. Role patients accounted for 118 cases and females for 66 cases, and more of the patients came from an urban environment than from a rural one. The basic diagnostic step was the direct radiomethods was used.

Includes 16 references, of which 10 Rumanian, one Russian, one French and 4 English-language. -- Manuscript submitted 5 1/1

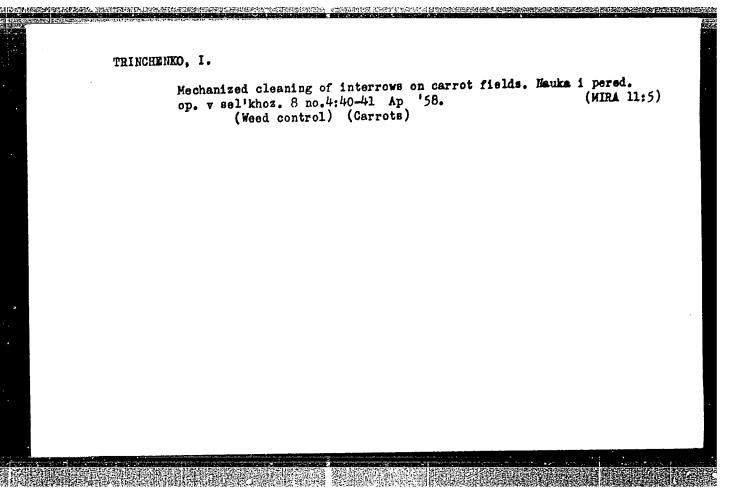
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# TRINCA, Francisc From the experience of a Rumanian trade union in the organization and guidance of public control. Munca sindic 7 no.4:55-57 Ap '63. 1. Presedinte al Consiliului local al sindicatelor Lugoj.

TRINCA, Virgil, corespondent

Calling for socialist competition. Constr Buc 14 no.649:1 16 Je '62.

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TRINCHENKO, I. V., Cand Agr Sci -- (diss) "Mechanized procedures in the clearing of soil layer over germinated carrot seeds as a method of weed control." Leningrad-Pushkin, 1960. 20 pp with illustrations; (Ministry of Agriculture RSFSR, Leningrad Agricultural Inst;; 156 copies; price not given; (KL, 27-60, 157)

	tion	Editorial Basels S.A. Vorob'yev, Candidate of Rechaical Sciences; Chairman of the Editorial Board: P.I. Zange, Engineer; A.A. Kaklov, Engineer, V.I. Kuntwow, Engineer, A.Y. K. Leonor, Docent, A.I. Tupitapa, Candidate of Technical Sciences, and S.M. Ranne, Candidate of Technical Sciences; Eds.:  Technical Sciences, and S.M. Kandaut, Landidate of Technical Sciences; Eds.:  Technical Sciences, and L. Kardaut, and L.P. Lyalyuk; Tech. Eds.: M.I. Limanova.	COUTANGE: The maltifaceted expression of Kharikov enterprises in the machanitantion, and improvement of manufacturing processes is generalized. The development of machines, instruments, and promotion actions is considered and attention is given to revise enterprises, and to be introduction of tentions of the rot of revised and to be introduction of the machine enterprises, and to be introduction of the machine enterprises, and to be introduction of the farm, where gives spaten management.  For the strengt to demonstrate the atthewants of the Narikov intestral complex at faultiling the resolutions of the Ture (1999) and Muly (1960).  For the control control committee of the Committee for the Rose in the Soriet Union.  For the control control control committee of the Committee for the Committee	TABLE OF CONTENTS:	Shubenbo-Shutis, L.A. (Corresponding Nember of the Academy of Sciences of the Unical, Elect beiger of the Khar'korakiy turbinny saved Elsa'r'bor further Flats!, The Development of Steam-Turbine Building 79 at the Engl'bor Further Flats incal Kiror	Bereith, S.I. (Enief Ergineer of the Khar'hav Turbine Plant Lanni Errov), and V.J. Esskov (beputy Chief Process Engineer), Experience in Mechanization and Automation	Saydroor, V.J. [Chief Engineer of the Khar'kovakiy elektromekhanicheskiy saved Enr'hov Electromethanical Frans), and H. Ya. Polisskiy [Deputy Endef Plant Engineer]. Pull Mechanization and Automation at the Khire. 117	Mechanization end Automition (Cont.) 807/5452	26.1 **Tytonkly, F.B.*., and M.G. Tishnevskiy (Engineers), The Experimental Model Shop of the Char'kovskiy podahipnikryy savoi (Khar'kov Searing Flant)	Stepnov, S.P., (Deputy Chief Engineer of the Thankorehly stankoravol Thankor Machine-Tool Plant), and I.T. Frantaniev (Chief Designor). Automatic and Semisatocalite Grinding Machines	Mas yanov, O.M., 3. We. Shrartanan, and I.M. 211 berborg [Engineers].		Enthoy, P.K. [Clief Engineer of the Khill]. Automatic [Froduction] Libra for Starping Stator and Rotor Sheets	211 Per, A.G. (Thief Process Engineer of the "Svet shabhters" Plant), For Mechanization in Coal Mining	Card 1/8	
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Kechunizat	Radebenko, ravodkha Bleyele Ma	Tuzefov, W	Trinchenko	Kucherov, P.N. (Di Dar'sov Conditions [Air] Conditioners	belostotek Steel Part	Mechanizat	Ulischenko, F.U. [(torgovego mashinosti Pailding Flant]. Ti Consuming Fracesce	Markin, V. the Corrant the Strugg	Chervov, V the Oblast Scientists	Senko, M.F. Imeni W.I. Lenin; Projectoren Sci	Didenko, K Apparatus	Mechanizat	Sarchenko [Engineer]	factor, W.] [Engineer] [Estitute of Operation	Ivaschenko Engineers	Swet, I. Sh Automating Beating	Venediktov, bbozyaystvu Application	Mechanizati Turanov, A. of the Khu- and Process AVAILABIE:

# Hechanization of production at the Kharkov "Krasnyi Oktiabr'" Plant. Stroi. i dor. mashinostr. 5 no.12:30-32 D '60. (MIRA 13:11) 1. Direktor Khar'kovskogo zavoda "Krasnyy Oktyabr'." (Building materials industry--Equipment and supplies)

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TRIBCHER, K.S., kamidat biologicheskikh nank (Miass)

Apparatus for intrapleural operations. Elin. med. 32 no.12:78-80

(MLRA 8:3)

D'54.

1. Is tuberkulesnogo otdeleniya (sav. K.S. Trincher) gorodskoi
bol'nity g.Miass.

(FIMURA, surgery
intrapleural drainage & lavage, appar.)

ACCESSION NR: AP4015082

s/0205/64/004/001/0036/0040

AUTHOR: Trincher, K. S.; Kuzin, A. M.

TITLE: Significance of water in erythrocyte radiation damage

SOURCE: Radiobiologiya, v. 4, no. 1, 1964, 36-40

TOPIC TAGS: erythrocyte radiation damage, gamma-irradiation, erythrocyte water medium, closely packed erythrocytes, optical density change, active water radical, erythrocyte radioprotection, erythrocyte water film, direct radiation injury, erythrocyte water distribution

ABSTRACT: The possibility that the active water radicals surrounding erythrocytes play a dominant role in erythrocyte membrane radiation damage has been suggested by the authors' earlier investigations. To test this possibility, radiosensitivity of erythrocytes suspended in a physiological solution was compared with closely packed erythrocytes produced by centrifuging the same suspension for 5 min. The erythrocyte samples were gamma-irradiated (Csl37, 700 r/min) with 5000 r doses. Radiation damage was determined photometrically by optical density change. Close packing of erythrocytes was found to be Cord 1/3

ACCESSION NR: AP4015082

responsible for approximately 20% radioprotection. Additional experiments were conducted with closely packed erythrocytes to find whether this protective action can be attributed to depression of metabolic processes. Findings showed that radioprotection of closely packed erythrocytes is not caused by metabolic processes, but by the reduced volume of water surrounding the erythrocyte and the subsequent reduced number of water radicals reaching the erythrocyte. To find whether the remaining 80% erythrocyte radiation damage is caused by radiation acting directly on the erythrocyte structure or only on the water film enveloping the erythrocyte, erythrocyte samples were irradiated in an isotonic medium containing 0.5% glucose. Radioprotection increases to 55% in the presence of glucose which does not penetrate into the erythrocyte. This protective action can be attributed to interception of the shortlived water radicals formed in the water films enveloping the erythrocytes and is related to radiation acting indirectly on erythrocyte structure. On the bases of water distribution within the erythrocyte and also on the basis of the literature, it is estimated that 20% of radiation damage is caused by direct injury of erythrocyte membrane macromolecules. Shortlived water radicals in the water film enveloping the erythrocyte or direct radiation action on the lipoprotein complexes of the cell surface layer may account for the remaining cord 2/3

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756620002-2"

ACCESSION NR: AP4015082

25% radiation damage. The mechanisms which increase erythrocyte membrane radiosensitivity in a physiological solution are applicable to other cellular structures. Orig. art. has: 5 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Institute of Biological Physics AN SSSR)

SUBMITTED: 25Sep63 DATE ACQ:

25Sep63 DATE ACQ: 12Mar64 ENCL:

SUB CODE: IS NO REF SOV: 005 OTHER: 011

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USSR/BIOLOGY - TRINCHER, K.S.

FD-2435

Card 1/1

Pub 17-18/21

Author

\*Trincher, K. S. Cand Biol Sci

Title

The resistance of tissues of various organs to an active reaction of

a medium

Periodical: Byul. eksp. biol. i med. 39, 68-71, Jan 1955

Abstract

: Author studied tissues from lungs, kidneys, and mesentery of different warm-blooded and cold-blooded animals and their resistivity to artificial media of pH = 4 = 11. Since the lungs and kidneys of warmblooded animals take an active part in the regulation of the acidalkaly balance of the organism they must depend on their resistivity to a more or less wide pH zone. At pH = 4 lungs, kidneys, and mesentery were found to suffer paranecrosis; lungs were irreversibly damaged at pH ~ 5.2; injury to the mesentery at pH ~ 5.2 was incompletely reversible; kidneys were markedly resistant, damage being completely reversible. In a neutral medium (pH ~ 7) the lungs showed paranecrosis. Above pH ≥7, there was paranecrosis and formation of granulation. 2 references: 2 USSR, 2 since 1940, tables.

Institution: Chair of Pharmacology (Prof K. A. Meshcherskaya) Chelyabinsk Medical Institute, and Tuberculosis Department (\*Head, Cand Biol Sci K. S.

Trincher) Miass Municipal Hospital; Chelyabinskaya Oblast

Submitted : May 4, 1953

# TRINCHER, K.S.

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#### TRINCHER, K.S.

Effect of temperature on lew- and high-frequency electric conductivity of blood and its connection with the structure of crythocytes. Biofizika 1 no.2:113-119 56. (MIRA 9:9)

1. Bielege-pechvennyy fakulitet Meskevskege gesudarstvennege universiteta. (TEMPERATURE--PHYSIOLOGICAL EFFECT)(ERYTHROCYTES)(ELECTROPHYSIOLOGY)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756620002-2"

TRINCHER, K.S.

Lungs as a heat producing organ [with summary in English]. Biofizika 2 no.6:675-685 '57. (MIRA 10:12)

1. Gosudarstvennyy meditsinskiy institut, Semipalatinsk. (LUNGS) (ANIMAL HEAT)

型化10克里拉的农业的原则的是一种使用的企业,并使用的企业的企业,并且在10年的特别的企业和10克里拉的企业的的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业

# TRINCHER, K.S.

Decline of the resistance of irradiated erythrocytes in alkaline media and relation of the latent period of alkaline hemolysis to the radiation dose [with summary in English]. Biofizika 4 no.1: 78-83 Ja '58.

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

(HEMOLYSIS, effect of radiations,

x-rays, relation of dose to latency period of
alkaline hemolysis (Rus))

(ROENTGEN RAYS, effects,

on hemolysis, relation of radiation dose to latency
period of lakaline hemolysis (Rus))

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TRINCHER, K.S. (Moskva)

Bipolar theory of the dielectric structure of cells. Usp.sovr.biol. (MRA 11:8)

45 no.3:261-271 My-Je '58

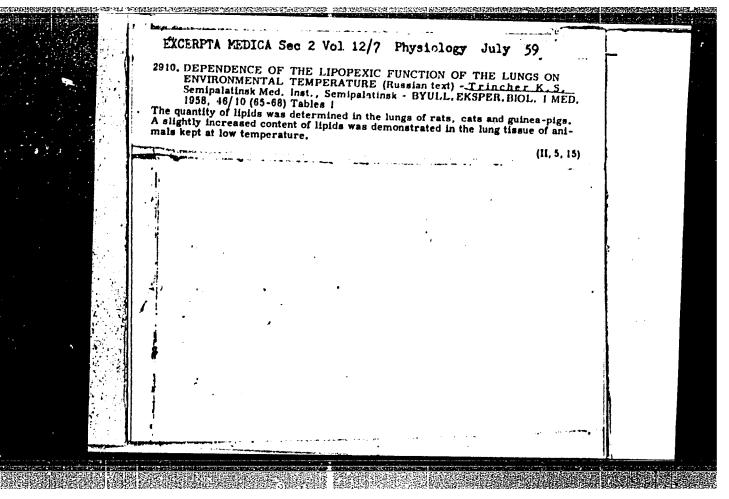
(HISYOLONY,

bipolar theory of dielectric structure of cell,

review (Rus))

(ELECTROPHYSIOLONY,

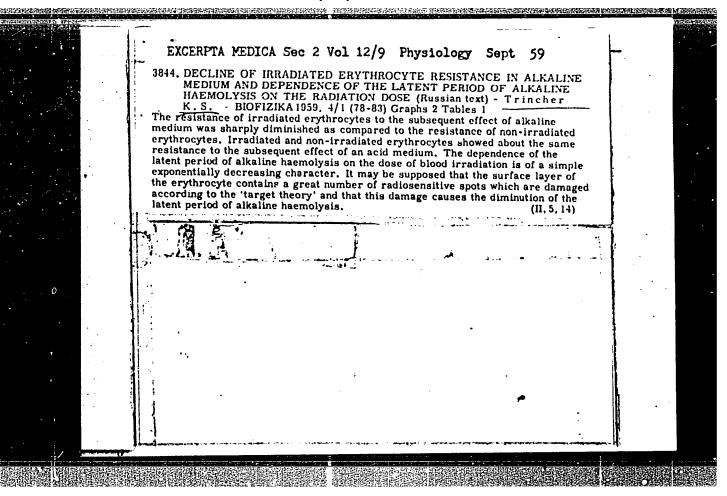
same (Rus))
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CHIZHEVSKIY, Aleksandr Leonidovich, prof.; KORZHUYEV, P.A., doktor biolog. nauk, otv.red.; TRINCHER, K.S., red.izd-ve; ASTAP'YEVA, T.A., tekhn.red.

BELLEBERGE LEGERAL DE LEGER

[Structural analysis of circulating blood] Strukturnyi analiz dvizhushcheisia krovi. Moskva, Izd-vo Akad.nauk SSSR, 1959.
473 p. (MIRA 12:12)
(ERYTHROCYTES)



TRINCHER, K.S.; ORLOVA, L.V.

Concentration dependence of the velocity of erythrocyte destruction in an alkaline medium. Biofizika 10 no.3:540-542 '65. (MIRA 18:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. Submitted
July 17, 1964.

L 10419-66 AM5026847

BOOK EXPLOITATION

UR/

Trincher, Karl Sigmundovich

63 341

Biology and information; elements of biological thermodynamics (Biologiya i informatsiya; elementy biologicheskoy termodinamiki), Koscow, Izd-vo 'Nauka', 1964. 98 p. illus., biblio. (At head of title: Akademiya nauk SSSR. Institut biologicheskoy fiziki) 5,200 copies printed.

TOPIC TAGS: biology, biophysics, genetics, biologic aging, temperature adaptation, thermodynamic law, cybernetics, existence

PURPOSE AND COVERAGE: This book on biological thermodynamics is a study of the physical laws of living nature. An attempt is made to formulate thermodynamic laws governing existence and development of living organisms. New concepts are introduced to explain the thermodynamics of material, concrete and objective characteristics of life. The book shows that intracellular water is in a state of thermal lability. The author bases his study on two main rules: "the law of biological adaptation" and "the law of accumulation of information". This book is recommended for biologists, biophysicists, physicists, cyberneticians, philosophers, scientific workers, aspirants and students of corresponding

Card 1/2

UDC: 57:519.92+536.7

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L 10419-66
   AM5026847
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            Thermodynamic theorem of biologic evolution -- 36
   Ch. III. Adaptational process of the cell (ontogenetic adaptation of erythro-
             cytes) -- 43
   Ch. IV. Law of biological adaptation -- 50
   Ch. V. The problem of aging of an organism -- 56
   Ch. VI. Basic exchange and external working processes of an organism -- 66
   Ch. VII. Law of accumulation of information - 67
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   Supplement (P. G. Kuznetsov). The history of the problem of applying thereo-
   dynamics to biology - 88
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TRINCHER, K.S.; KUZIN, A.M.; BREGADZE, Yu.I.; GINTSBURG, E.I.

Radiation injury of erythrocytes, suspended in native and protein-free medium, by various kinds of irradiation. Radiobiologiia 5 no.2:174-178 65.

(MIRA 18:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756620002-2"

TRINCHER, K.S.

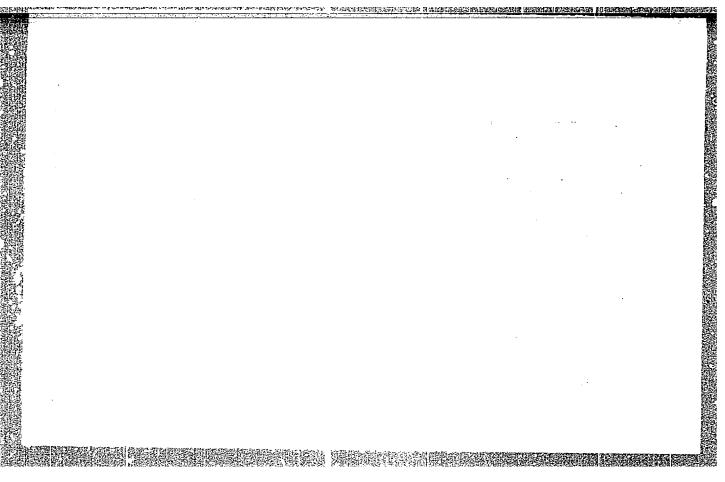
Concerning articles: "Applicability of the second principle of thermodynamics to living matter" by IU.P.Syrnikov, "More on the applicability of Prigozhin's theorem to biology" by A.I.Bykhovskii, and "Applicability of Prigozhin's theorem to the process of embryogenesis and evolution" by M.B.Berkinblit. Biofizika 10 no.6:1109-1112 \*65. (MIRA 19:1)

TRINCHER, Karl Sigmundsvich, st. nauchn. sotr.; BERNSHTEYN, N.A., prof., ctv. red.; KOLPAKOVA, Ye.A., red.

[Biology and information; elements of biological thermodynamics] Biologia i informatsiia; elementy biologicheskoi termodinamiki. Moskva, Nauka, 1965. 118 p. (MIRA 18:8)

1. Institut biologicheskoy fiziki AN SSSR (for Trincher).



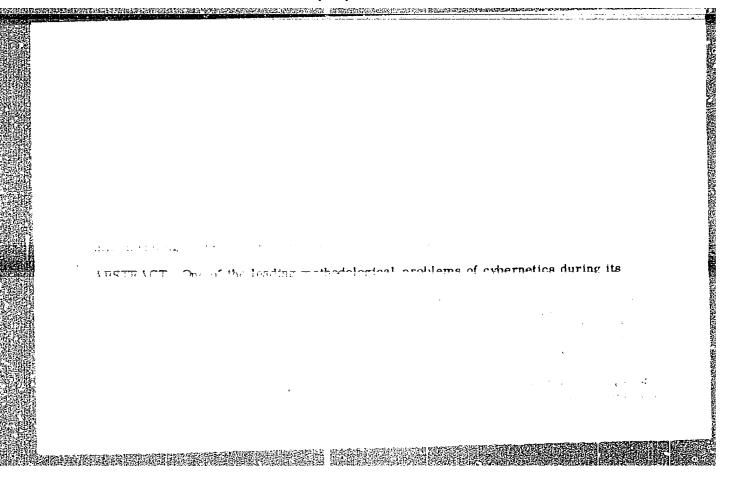


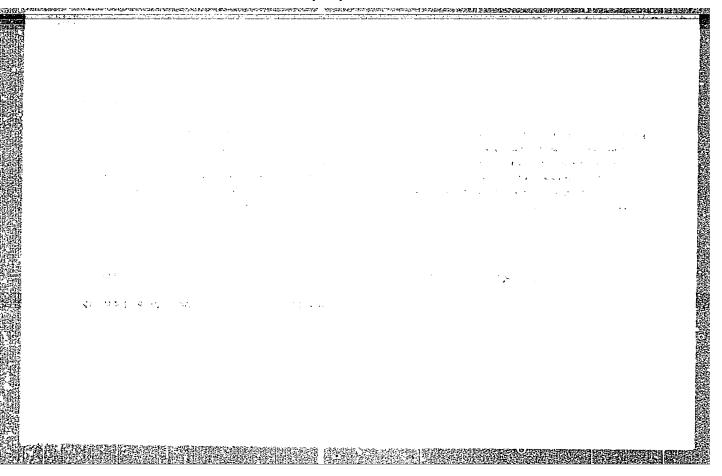
TRINCHER, K.S.; GINTSBURG, E.I.

Adaptive changes in hemoglobin during intogenesis. Fixiol. zhur.
49 no.5:621-625 My 163. (MIRA 17:11)

1. From the Institute of Biological Physics U.S.S.R. Adademy of Sciences, Moscow.

等的比较大的过程,我们就是这种是对人,我们也是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一





KUZIN, A.M.; TRINCHER, K.S.

Enzymatic analysis of the surface paper of enythrocytes. Bicfizika 7 no.5:599-601 \*62. (MIRA 17:8)

1. Institut biologicheakoy fiziki AN SOSE, Maskva.

TRINCHER, K.S.

Thermodynamic theorem of biological evolution. Biofizika 7 no.6:740-744 162. (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

TRINCHER, K.S.; KUZIN, A.M.

Significance of water in radiation damage of the erythrocytes.

Radiobiologia 4 no.1:36-40 '64. (MIRA 17:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

TRINCHER, K.S.

Thermodynamics of biological processes. Zhur. fiz. khim. 37 no.5:1043-1048 My \*63. (MIRA 17:1)

1. Institut biologicheskoy fiziki AN SSSR.

TRINCHER, K.S.; GINTSBURG, E.I.

Kinetics of the enzymatic destruction of the cell membrane of an erythrocyte. Biolizika, 7 no.2:244-247'62. (MIKA 16:8)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. (ERYTHROCYTES) (TRYPSIN)

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TRINCHER, K.S.; MOZZHUKHIN, A.S.

Correlation between the metabolic intensity of a radiosensitive organ and the effective dose of a radiationprotective agent. Radiobiologiia 3 no.4:626-627 163. (MIRA 17:2)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756620002-2"

e samene e sa e pro-TITLE: Correlation between the metabolism rate of a religeorative organ and the effective dose of a radioprotectur SOURCE: Radiobiologiya, v. 3, no. 4, 1963, 626-627 TOPIC TAGA: radioprotector, cysteamine, preteamine radioprotector, metabolism rate, radiosembliture ordan ADSTRACT: Data on the dose of a radioprotector (cystermine) used against irradiation with a lethal dose and the matabalism rate of the whole organism and indi-لسار معادات والمرابط المالية ويعالم المرابع in the saids on for live, our car we can be said to the control of The little of the metalolism rate Suppose the second control of t **Card** 1, 2

case of the spleen: for mice it was will; for rate, file?; for rabbits, file; for acts, file?; for rabbits, file; for acts, file; for rabbits, file; for acts, file; for acts, file; for rabbits, file; for acts, file; for acts, file; for rabbits, file; a radioprotector is directly proportional to the metabolism rate of the radio-sensitive organ; the higher the metabolism rate of the radioprotector use? Orig. act. has: I table and I figure.

ASSOCIATION: Institut biologicheskoy fiziki AT 1707, Moscow (Institute of Biophysics, AN OSSR)

SUBMITTED: 23Apr63

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: AM

NO REF SOV: 001

OTHER: 000

Card 2/2

L 9897-63

ACCESSION NR: AP3000413

s/0076/63/037/005/1043/1048

44

AUTHOR: Trincher, K. S.

TIT.E: Thermodynamics of biological processes

SOURCE: AN SSSR. Zhurnal fizicheskoy khimii, v. 37, no. 5, 1963, 1043-1048

TOPIC TAGS: thermodynamics, biological processes, Prigogine's theory of minimum entropy production, embryogenesis, biologic evolution

ABSTRACT: Prigogine's theory of minimum entropy production describes the thermodynamics of the relatively stable situation obtaining in adult organisms. It is vestigating the applicability to open systems in the growth phase, the alternomolysised that it loss not built for the phase of embryogenesis in same their animals, which is caracterises of an increase in specific entropy with embryogenesis obtained specification. The sequential special and a sequential special and a sequential special and a sequential special and a sequential special animals. The sequential special special special animals and a sequential special sp

Card 1/7/

# TRINCHER, K.S. Law of biological adaptation. Dokl.AN SSSR 149 no.3:717-720 Mr. '63. 1. Institut biologicheskoy fiziki AN SSSR. (Adaptation (Biology))

27.1220

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AUTHOR:

Trincher, K.S., and hikhaylova, A.A.

TITLE:

The dielectric structure of liver cells and the effects of radiation

and cysteine

PERTODICAL:

Radiobiologiya, v. 2, no. 4, 1962, 523-529

TEXT: Electron-microscopic studies reveal the extremely heterogeneous structure of cells. This can be shown physiologically, by measuring electrical parameters in the presence of an external electrical field. The measurement of the electrical resistance in the liver tissue of rats was carried out under a series of conditions: after administration of cysteine - a radioprotective agent which brings about reversible changes in the measured parameters; after irradiation of the animals with a lethal dose which causes irreversible changes in the measured parameter; and after the administration of cysteine together with subsequent irradiation. It was found that the dielectric structure of the liver cell corresponds to the model of a dielectric dipole: in the absence of any external electric field, an electrical equilibrium is reached, the charges being mutually neutralized, but by inducing an external electric field the whole cell space becomes charged as a result of the

Card 1/2

S/205/62/002/004/001/014 1015/1215

The dielectric structure of ...

rotating dipole molecules. Radiation brings about a degradation of the dielectric structure of the liver cell, whereas cysteine increases the dielectric properties of the liver cell, due to partial immobilisation of the dipole molecules. There are 4 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR(Institute of Biophysics, AS USSR) Moscow

SUBMITTED: April 16, 1962

Card 2/2

TRINCHER, K.S.

Applicability of Prigogine's theorem to biology. Biofizika 6 no.6: (MIRA 15:1)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. (BIOLOGY) (THERMODYNAMICS)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756620002-2"

TRINCHER, K.S.; KUZIN, A.M.

Effect of radiation protective agents on the surface layer of erythrocytes. Radiobiologiia 1 no.1:30-36 '61. (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(RADIATION PROTECTION) (ERYTHROCYTES)

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SHTERN, L.S., akad., otv.red.; RAPOFORT, S.Ya., doktor med.nauk, red.; ROSIN, Ya.A., doktor med.nauk, zam. otv. red.; UTEVSKAYA, L.B., kand. biol.nauk, red.; TRINCHER, K.S., red. izd-va; VOLKOVA, V.V., tekhn.red.

[Histohematic barriers; transactions of the conference] Gisto-gematicheskie bar'ery; trudy soveshchaniia. Moskva, Izd-vo Akad.nauk SSSR, 1961. 406 p. (MIRA 14:12)

1. Konferentsiya po voprosam neposredstvennogo vozdeystviya na nervnyye tsentry. 3d, Moscow, 1960. 2. Laboratoriya fiziologii pri Institute biologicheskoy fiziki AN SSSR (for Utevskaya).

(CAPILIA RIES—PERMEABILITY)

TRINCHER, K.3. (Moskva)

Thermogenic function of the lungs. Usp. soov. biol. 49 no.2:201(MIRA 13:11)
214 Mr-Ap '60.
(BODY TEMPERATURE—REGULATION)

TRINCHER, K.S.

Mechanisms of radiation-induced, thermal, and alkaline hemolysis and determination of a structural unit of the surface layer of erythrocytes in the irradiation of blood. Biofizika 4 no. 6:731-737 '59. (MIRA 14:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(RADIATION—PHYSIOLOGICAL EFFECT) (ERYTHROCYTES)
(HEMOLYSIS AND HEMOLYSINS)

TRINCHER, K. S. AND KUZIN, A. M.
"The enzymatic analysis of crythrocyte surface layer structure."

report submitted for the 1st Intl. Biophysics Congress, Stockholm 31 July - 4 August 1961.

TRINCHER, K.S.

Physical meaning the dosage coefficient in thermal treatment of the blood. Biofizika 5 no. 4:502 160. (MIRA 13:12)

1. Institut biologicheskoy fiziki AN SSSR, Moskva. (BLOOM PROTEINS) (HEAT—PHYSIOLOGICAL EFFECT)

KUZIN, A.M.; TRINCHER, K.S.

Modification of radiosensitivity in erythrocytes. Biofizika 5 no. 5:533-538 '60. (MIRA 13:10)

l. Institut biologicheskoy fiziki AN SSSR, Moskva. (ERYTHROCYTES) (GAMMA RAYS—PHYSIOLOGICAL EFFECT)

TRINCHER, K.S.; TOKARSKAYA, V.I.

Primary and initial mechanisms of the biological activity of nuclear radiations. Biofizika 5 no. 6:758-761 '60.

(MIRA 13:10)

(RADIOACTIVITY—PHYSIOLOGICAL EFFECT)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R001756620002-2"

TRINCHER, K.S.

Causes of increased carbonic anhydrase activity in the lungs.
Fiziol.shur. 46 no.6:726-728 Je '60. (MIRA 13:8)

1. From the Institute of Biophysics, Academy of Science of the U.S.S.R., Moscow. (LUNGS) (CARBONIC ANHYDRASE)

TRINCHER, K.S., KUZIN, A.M.

"The Enzymatic Analysis of Erythrocyte Surface Layer Structure."

report presented at the Intl. Biophysics Congress, Stockholm, Sweden, 31- July - 4 August 1961.

Institute of Biophysics, USSR Academy of Science, Moscow, USSR.

TRINCHER, Karl Sigmundovich; KORZHUYEV, P.A., doktor biolog.nauk, otv.red.;

KOLOMITTHEVA, I.K., red.izd-va; MAKUNI, Ye.V., tekhn.red.

[Heat-forming function and the alkali reaction in lung tissus]

Teploobrezovatel'nais funkteiis i shchelochnoat' reaktsii legochnoi

tkani. Moskva, Izd-vo Akad.nauk SSSR, 1960. 105 p.

(MIRA 14:3)

(LUNOS)

KOVALENKO, A.F., inzh.; TRINCHER, Yu.K., inzh.; QRICOR'YEV, V.Ya., inzh.; POPOV, A.G., arkhitektor

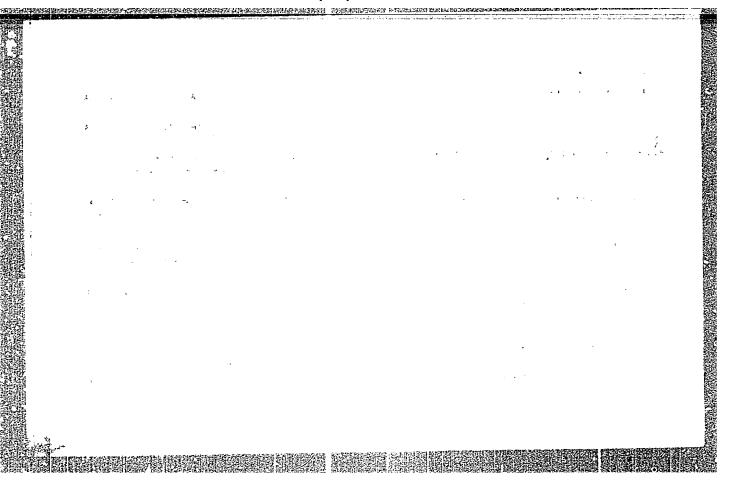
Unify the parameters of buildings and installations of sintering and dressing factories. Prom. stroi. 41 ho.10:2-5 0 '63.

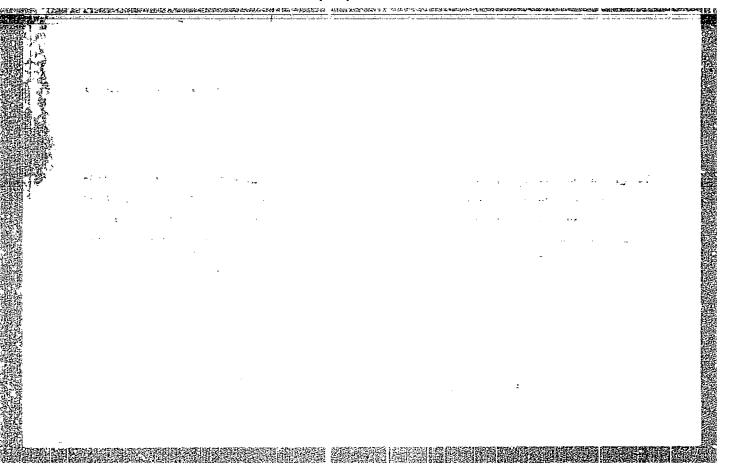
(MIRA 16:11)

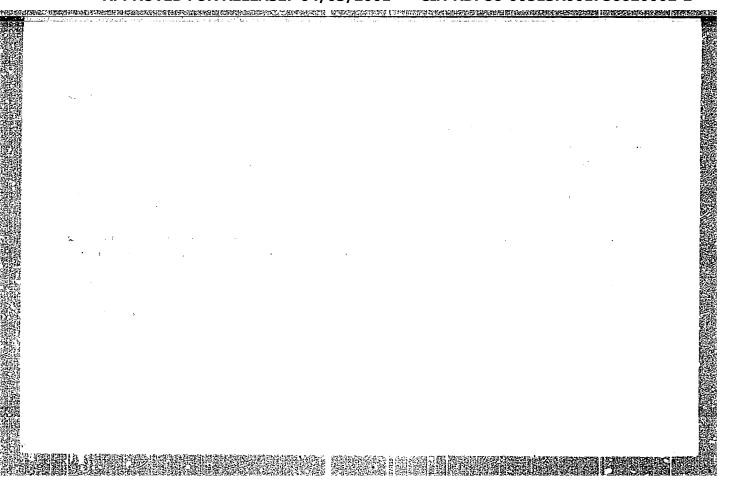
TRINCHER, V.K.

New method for determining the supercritical equilibrium of a cylindrical shell under axial compression. Vest. Mosk. un. Ser. 1: Mat., mekh. 20 no.1:76-82 Ja-F '65. (MIRA 18:4)

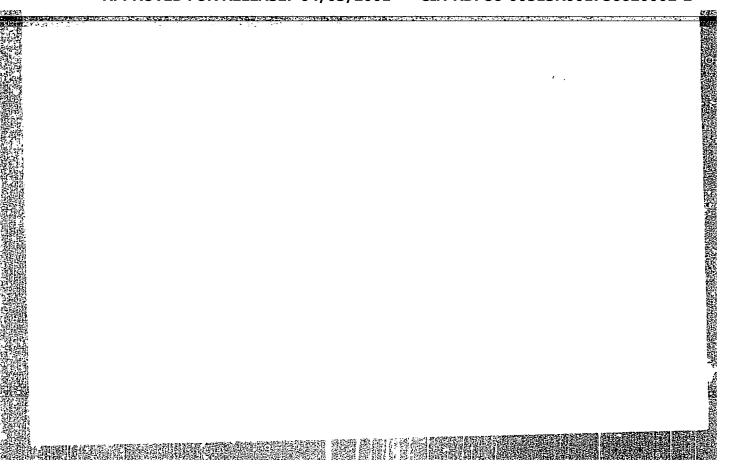
1. Kafedra teorii uprugosti Moskovskogo universiteta.

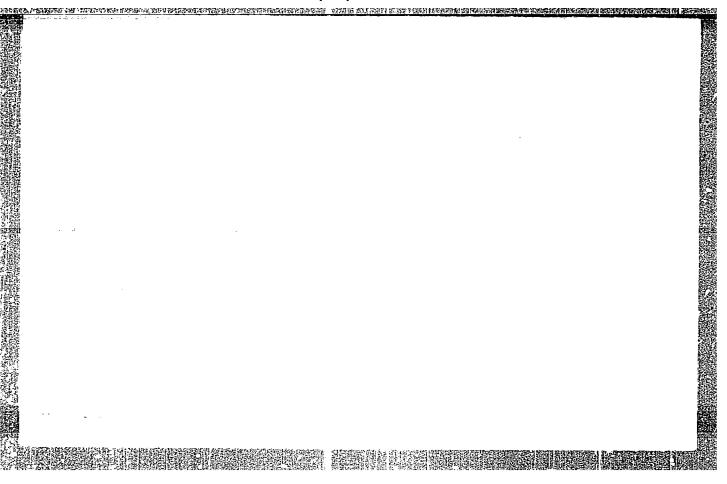












"Potato rejuvenation." Tr. from the Massian. p. 52. (ANALELE ROLLIU-SUVILITICE. SERIA ACRICULT MA-ZCOTEMIE, Vol. 6, seria a II-a, no. 11, July/Sept. 1952.

Bucuresti.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress August, 1953, Uncl.

TRIMER, Stanislav; TRIMER, Lubos, S Techn. spolupraci M. Faltejskove a M. Kornali-kove

Changes in pressor response to adrenalin & noradrenalin after benarcos & procaine administration. Cas. lek. cesk. 98 no.3:71-76 16 Jan 59.

1. Kontrolni ustav farmaceuticky a farmakologicky ustav KU v Praze St. T., Praha 2. Tyrsova 7.

(BLOOD PRESSURE, eff. of drugs on

procaine & ephedrine-eucodal-scopolamine prep. potentiation of pressure response to arterenol & epinephrine in dogs & rabbits, review (Cz))

(PROCAINE, eff.

potentiation of blood pressure response to arterenol & epinephrine in dogs & rabbits, review (Cz))

(EPHEDRINE, eff.

ephedrine-eucodal-scopolamine prep., potentiation of blood pressure response to arterenol & epinephrine in dogs & rabbits, review (Cz))

(SCOPOLAMINE, eff.

game)

(CODEINE, related compounds

eucodal-ephedrine-scopolamine prep., potentiation of blood

pressure response to arterenol & epinephrine in dogs & rabbits, review (Cz))

TRINDR, L.; MRAZ, M.

Some biochemical changes in the blood after dextrane administration. Physiol. bohemoslov. 12 no.2:128-135 '63.

1. Institute of Pharmacology, Faculty of General Medicine, Charles University, Prague.

(DEXTRAN) (PROTEINS) (BLOOD CHEMICAL ANALYSES)
(FATTY ACIDS) (DALCIUM) (BLOOD PROTEINS) (BLOOD, LIPIDS)

TRINER, L.; MRAZ, M.; CHMELAROVA, M.

The effect of glucose and glucose together with insulin on the resistance of fasted rats to trauma in the Noble-Collip drum. Physiol. bohemoslov. 12 nq12:136-144 '63.

1. Institute of Pharmacology, Faculty of General Medicine, Charles University, Prague.

(GLUCOSE) (INSULIN) (FASTING) (SHOCK TRAUMATIC)

(LIVER GLYCOGEN) (MUSCLE GLYCOGEN) (MUSCLE S):

hiromojjektika Milomoj

MRAZ, M.; TRINER, L.; CHMELAROVA, M.; KRAUS, R.

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Latinate Heady in

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(CHLORPROMAZINE pharmacol)
(METHONIUM COMPOUNDS pharmacol)
(BURNS exper) (SHOCK exper)

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CZECHOSLOVAKIA / Pharmacology, Toxicology, Narcotics.

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 94117

Authors : Triber, Lubos; Triner, Stanislav. Inst : Not given

Title : Strengthening the Effect of Amytal and Dormiphe-

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Abstract : Administering 50 mg/kg dormiphene (I) to the mice did not produce sleep. Sleep came after adding 2 mg/kg Kellin (II), corresponding to the effect of 75 mg/kg I. II strengthened the effect of amytal in the same degree. The most active of all the flavonic derivatives used for the intensification of the somnific effect, is found to be apigeninsulfonic acid. The authors link the strengthening effect of II with its ganglion-

blocking characteristics. -- A. G. Pinus.

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